



# New Jersey Department of Environmental Protection

## Notice of Vacancy

Filling of this position is contingent upon further approval process

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**Title:** Research Scientist 3

**Posting Number:** WRM-2022-27

**Open to:** General Public

**Workweek:** NL (35-hour) Workweek

**Salary:** (P25) \$68,214.76 — \$96,960.49

**Opening Date:** 4/14/2022

**Closing Date:** 4/28/2022

**Existing Vacancies:** Two (2)

**Program/Location:** Department of Environmental Protection  
Water Resource Management  
Water Monitoring, Standards & Pesticide Control  
Bureau of Environmental Analysis, Restoration, and Standards  
401 East State Street  
Trenton, NJ 08625

**Scope of Eligibility:** Open to applicants who meet the requirements below.

**Description:** Under direction of a Research Scientist 1 or other supervisory official in a state department, institution, or agency, conducts or participates in research projects or developed programs in a specified professional field; does other related work.

**Specific to the Position:** Position 1 - Under supervision, implements and participates in specialized research concerning water quality, including but not limited to the review and/or development of fate and transport models for various pollutants for the preparation of Total Maximum Daily Load (TMDL) reports, and performing related work. Analyzes large sets of water quality data using the open-source program, R, to determine the health of the waters of the State, as required by the Federal Clean Water Act's Section 303(d) and 304(b). Quantifies the pollutant load reductions from various sources that are needed for a waterbody to attain standards. The work entails ensuring data quality, preparing reports, graphs, maps, application and interactive user interfaces, conducting statistical analysis, maintaining large databases, presenting scientific information to general audience. Functions as a scientific consultant in areas pertaining to specific expertise. Attends meetings. May be required to learn additional programming languages.

Position 2 - Under supervision, conducts and/or manages specialized research concerning water quality, toxicology, risk assessment, treatment processes, economic analysis, specifically to surface and groundwater standards development. Evaluates analytical procedures and methodologies related to surface and ground water quality standards development and implementation. Reviews, interprets and analyzes environmental, toxicological, engineering and economic data, compiles and disseminates the data as well as uses the information to develop new standards and assess the impact of anticipated standards. Participates in rulemaking; helps write rules and prepare the related material such as rule proposal and adoption documents, technical reports, presentations,

charts, and graphs. Functions as a scientific consultant in areas pertaining to specific expertise. Attends and presents at meetings. May be required to learn to perform basic research regarding Departmental and Federal programs, functions and procedures.

**Preferred Skill Set:** R Statistical Analysis Software and/or other programming languages such as Python, Java, C++ to evaluate large data sets. Strong analytical, technical writing and presentation skills, and basic familiarity with water quality rules and standards. Toxicological, environmental risk management and policy background. Experience with analyzing various types of environmental as well as toxicological data and translation of data to public and aquatic health risk. Familiarity with reviewing US EPA guidance documents/publications for current research and incorporates into a scientific recommendation. Development of ground water and/or surface water quality standards. Excellent writing skills with legal and/or rule writing skills preferred.

## Requirements

**Education:** Graduation from an accredited college or university with a Master's degree in a discipline appropriate to the position.

NOTE: All U.S. degrees and transcripts must be from an accredited college or university. All foreign degrees and transcripts must be evaluated for accreditation by a recognized evaluation service by the closing date of this posting. Failure to provide documentation may result in ineligibility.

**Experience:** Two (2) years of experience in a field appropriate to the position.

NOTE: A Doctorate in a discipline appropriate to the position may be substituted for two (2) years of experience indicated above.

**License:** Appointee will be required to possess a driver's license valid in New Jersey only if the operation of a vehicle, rather than employee mobility, is necessary to perform essential duties of the position.

**Residency:** All persons newly hired on or after September 1, 2011 have one year from the date of employment to establish, and then maintain principal residence in the State of New Jersey subject to the provisions of N.J.S.A. 52:14-7 (L.2011, Chapter 70), also known as the "New Jersey First Act".

**Authorization to Work:** Selected candidates must be authorized to work in the United States per the Department of Homeland Security, United States Citizenship and Immigration Services regulations. **Note:** The State of New Jersey does not provide sponsorship for citizenship to the United States.

**Note:** Interviews will be granted based on the cover letter, resume and credentials submitted in response to this notice. Applicants may be required to provide a copy of their transcripts at time of interview.

Per Executive Order 253, all State employees are required to be fully vaccinated against COVID-19 or undergo weekly testing. Please do not submit proof of vaccination at this time; instructions will be provided if an offer of employment results from this NOV.

**Veteran's Preference:** To qualify for New Jersey Veteran's Preference/status, you must establish Veteran's Preference through the Department of Military and Veterans' Affairs. Please submit proof of your Veteran's Preference along with your resume as indicated below. For more information, please visit <https://nj.gov/military/veterans/services/civil-service/preference/>

**Submit Letter of Interest, Resume and e-mail address by 4:00 PM on the Closing Date to:**

Catherine Bogart

Water Resource Management

E-mail Address: [WRM.Resumes@dep.nj.gov](mailto:WRM.Resumes@dep.nj.gov)

Please include the title and posting # of this Notice of Vacancy in the subject line of your e-mail.

**Posting Authorized By:**

Phiroza Stoneback, Manager  
Division of Human Resources

**The New Jersey Department of Environmental Protection is an Equal Opportunity Employer and is committed to inclusive hiring and a diverse workforce. We strongly encourage people from all backgrounds to apply. Accommodations under ADA will be provided upon request.**